**MagicNumber.java**

runMagicNumberGame class

1. Start
2. Display a dialogue box that says " "IS IT HERE ? 1 3 5 7 9 11 13 15 \n17 19 21 23 25 27 29 31 \n33 35 37 39 41 43 45 47 \n49 51 53 55 57 59 61 63"
3. yesOrNo 🡨 remove spaces from original yesOrNo
4. if yesOrNo🡨”yes" ignoring the case of type string

sum🡨sum+1

1. repeat 2-4 while yesOrNo is not "yes" and "no" ignoring case
2. Display a dialogue box that says " IS IT HERE ? 4 5 6 7 12 13 14 15 \n20 21 22 23 28 29 30 31 \n36 37 38 39 44 45 46 47 \n52 53 54 55 60 61 62 63 "
3. yesOrNo 🡨 remove spaces from original yesOrNo
4. if yesOrNo🡨”yes" ignoring the case of type string

sum🡨sum+4

1. repeat 6-9 while yesOrNo is not "yes" and "no" ignoring case
2. Display a dialogue box that says "IS IT HERE ? 2 3 6 7 10 11 14 15 \n18 19 22 23 26 27 30 31 \n34 35 38 39 42 43 46 47 \n50 51 54 55 58 59 62 63 "
3. yesOrNo 🡨 remove spaces from original yesOrNo
4. if yesOrNo🡨”yes" ignoring the case of type string

sum🡨sum+2

1. repeat 10-13 while yesOrNo is not "yes" and "no" ignoring case
2. Display a dialogue box that says "IS IT HERE ? 8 9 10 11 12 13 14 15 \n24 25 26 27 28 29 30 31 \n40 41 42 43 44 45 46 47 \n56 57 58 59 60 61 62 63 "
3. yesOrNo 🡨 remove spaces from original yesOrNo
4. if yesOrNo🡨”yes" ignoring the case of type string

sum🡨sum+8

1. repeat 14-17 while yesOrNo is not "yes" and "no" ignoring case
2. Display a dialogue box that says "IS IT HERE ? 32 33 34 35 36 37 38 39 \n40 41 42 43 44 45 46 47\n48 49 50 51 52 53 54 55\n56 57 58 59 60 61 62 63"
3. yesOrNo 🡨 remove spaces from original yesOrNo
4. if yesOrNo🡨”yes" ignoring the case of type string

sum🡨sum+32

1. repeat 18-21 while yesOrNo is not "yes" and "no" ignoring case
2. Display a dialogue box that says "IS IT HERE ? 16 17 18 19 20 21 22 23 \n24 25 26 27 28 29 30 31\n48 49 50 51 52 53 54 55\n56 57 58 59 60 61 62 63"yesOrNo 🡨 remove spaces from original yesOrNo
3. if yesOrNo🡨”yes" ignoring the case of type string

sum🡨sum+16

1. repeat 22-25 while yesOrNo is not "yes" and "no" ignoring case
2. if sum🡨0 display “YOU cheated! YOUR NUMBER WAS 0!” in a dialogue box
3. otherwise dialogue box will display "YOUR NUMBER WAS " + sum + " WASN'T IT :) ??" and another one displaying "CREDIT GOES TO http://www.nku.edu/~longa/shows/binary/binomialcards.pdf"
4. end

Legend

/n= new line